Appliance Survey

The purpose of this activity is to teach you how to calculate the energy consumption of various appliances around your home or school.

1. Item Name *Description of light or appliance*	**Light in kitchen** *4, 60-watt bulbs*	**Color television with remote**				
2. Watts *# watts used when on*	240 watts *(4 bulbs x 60 watts)*	250 watts				
3. Hours / Day *Average of hours/day "on"*	2 hrs/day	4 hrs/day				
4. Is it left on when no one is using it?	Yes	Yes				
5. Does it leak electricity? *See course for more information*	No	Yes				
6. Leaking watts *(If leaks, estimate of wattage when off- see Leaking Watts Chart in course)*	0	4.3 watts				
7. Time item is on in a month *Hours/Day (Row 3) x 30 days*	60 hrs *(2 hrs/day x 30 days)*	120 hrs *(4 hrs x 30 days)*				
8. Time item is not on *(30 days x 24 hours) - time item is on (Row 7)*	660 hrs *(720 hrs - 60 hrs)*	600 hrs *(720 hrs - 120 hrs)*				
9. Watt-Hours used when on *Watts (Row 2) x time item is on (Row 7)*	14,400 watt-hrs *(240 watts x 60 hrs)*	30,000 watt-hrs *(250 watts x 120 hrs)*				
10. Watt-Hours used when off *Leaking watts (Row 6) x time item is not on (Row 8)*	0 watt-hrs	2,580 watt-hrs *(4.3 watts x 600 hrs)*				
11. Total Watt-Hours used in a month *Watts used when on (Row 9) + Watts used when off (Row 10)*	14,400 watt-hrs *(14,400 watt-hrs + 0 watt-hrs)*	32,580 watt-hrs *(30,000 watt-hrs + 2,580 watt-hrs)*				
12. Total kilowatt hours for month *Watt-hours (Row 11) divided by 1,000 watts*	14.4 kwh/month *(14,400 watt-hrs ÷ 1,000 watts)*	32.6 kwh/month *(32,580 watt-hrs ÷ 1,000 watts)*				
13. Rank of item's electricity use *(Rank the item using the most electricity #1, the second #2, etc.)*						
14. Item's relative importance *Use a scale of 1 to 5 where* *5= Must have this item;* *3= Item is somewhat important;* *1= Don't need item.*						